

outer margin in cross section. The bristles of the California species were very coarse, varying from one to three series between the enamel plates. The bristles of the *A. gibbosus* much finer, three series together. Length of the latter 8.5 inches, width at base 4.4 inches. In the gray whale or *Agaphelus glaucus* Cope, 22 inches in length, width at base 6 inches. In the former nearly 6 in an inch, in the latter $2\frac{1}{2}$. The baleen of the *A. gibbosus* belonged to an immature specimen of 35 feet in length.

June 30th.

The President, DR. HAYS, in the Chair.

Thirty-nine members present.

The amendment to Art. XXI, Chap. XIII, was adopted, as follows :

“The Department A shall be denominated the Biological and Microscopical Department of the Academy of Natural Sciences of Philadelphia.”

Articles VI, VII and VIII, Chap. XIII, were amended to read according to the original tenor, as follows :

“ART. VI.—Each department formed as herein provided, shall elect its own officers and members.

“ART. VII.—Every candidate for admission into a Department shall be proposed in writing by two of its members at one meeting, and be ballotted for at the meeting next succeeding.

“The affirmative vote of three-fourths shall be necessary to elect a candidate, but no election of members or of officers of a Department shall be valid unless there be present at the meeting six legal voters.

“ART. VIII.—Every member elect shall pay to the Treasurer of the Department an initiation fee and a semi-annual contribution, the amount of which shall be determined by the members of the Department, provided that a Department shall not assess its members at a rate exceeding two dollars for initiation and two dollars semi-annual contribution. In other respects the By-Laws, Chap. II, which govern the election of members and correspondents of the Academy, shall apply also to the election of members of any of its Departments.”

The following gentlemen were elected members :

Roger Shermau, John E. Carter, Francis P. Steel, Wm. Thompson, M.D., Wharton Barker, Isaac Comly, M.D., Silbert Combs, L. S. Bolles, M.D., J. F. Holt, M.D.

The following were elected correspondents :

Prof. Jas. Orton, Dr. Boynton.

On favorable report of the Committees, the following papers were ordered to be printed :

Descriptions of seven new species of UNIO from North Carolina.

BY ISAAC LEA.

UNIO DORSATUS.—Testa lævi, triangulari, ad latere planulata, inæquilaterali, postice subbiangulari, antice rotundata; valvulis subtenuibus, antice crassi-

[June,

usculis; natibus prominentibus; epidermide rufo-fusca, subsquamosa, obsolete radiata, dentibus cardinalibus parvis corrugatisque, lateralibus longis, lamellatis subcurvisque; margarita vel alba vel purpurea vel salmonea et valde iridescente.

Hab.—Catawba River, N. C., C. M. Wheatley.

UNIO DATUS.—Testa lævi, lato-elliptica, valde compressa, inæquilaterali, postice obtuse angulata, antice rotundata; valvulis subcrassis, antice parum crassioribus; natibus prominulis; epidermide rufo-fusca, micanti, obsolete radiata; dentibus cardinalibus parviusculis, sulcatis erectisque; lateralibus prelongis, subcurvis, lamellatis corrugatisque; margarita nubila, salmonea et purpurea et valde iridescente.

Hab.—Paw Creek, Beaver Creek and Long Creek, N. C., C. M. Wheatley.

UNIO BEAVERENSIS.—Testa lævi, oblonga, compressa, ad latere planulata, inæquilaterali, postice obtuse angulata, antice rotunda; valvulis subcrassis, antice parum crassioribus; natibus subprominentibus; epidermide rubiginosa, micanti, obsolete radiata; dentibus cardinalibus longis, crassis, lamellatis subrectisque; margarita vel alba vel purpurea et valde iridescente.

Hab.—Beaver and Long Creeks, N. C., C. M. Wheatley; Carter's Creek, Ga., J. Postell.

UNIO NUBILUS.—Testa lævi, oblonga, subcompressa, inæquilaterali, postice subbiangulari, antice rotundata; valvulis crassis, antice crassioribus; natibus prominulis; epidermide tenebroso-fusca, eradiata; dentibus cardinalibus crassis, sulcatis corrugatisque; lateralibus crassis, longis, corrugatis lamellatisque; margarita nubila, salmonea et purpurea et iridescente.

Hab.—Paw Creek, Mecklenberg Co., N. C., C. M. Wheatley.

UNIO PAWENSIS.—Testa lævi, suboblonga, inflata, valde inæquilaterali, postice subbiangulari, antice rotundata; valvulis subcrassis; natibus subprominentibus, subtumidis; epidermide tenebroso-fusca, squamosa, eradiata; dentibus cardinalibus parvis, corrugatis, subconicis; lateralibus longis, lamellatis subcurvisque; margarita vel alba vel purpurea et iridescente.

Hab.—Paw Creek, Beaver Creek, and Catawba River, N. C., C. M. Wheatley.

UNIO HUMEROSUS.—Testa lævi, elliptico-oblonga, compressa, ad latere planulata, inæquilaterali, postice obtuse biangulari, antice rotunda; valvulis subcrassis, antice crassioribus; natibus prominulis; epidermide rufo-fusca, obsolete radiata; dentibus cardinalibus grandibus, sulcatis, partitis; lateralibus prelongis, lamellatis corrugatisque; margarita salmonis colore tineta et valde iridescente.

Hab.—Charlotte, Mecklenberg Co., N. C., C. M. Wheatley.

UNIO GENUINUS.—Testa lævi, elliptica, subinflata, inæquilaterali, postice subbiangulata, antice rotundata; valvulis subtenuibus, antice crassioribus; natibus subprominentibus; epidermide luteola, valde radiata; dentibus cardinalibus erectis, pyramidatis, in utroque valvulo duplicibus; lateralibus longis, subcurvis lamellatisque; margarita alba et iridescente.

Hab.—Bissel's Pond, Charlotte, N. C., C. M. Wheatley.

Description of two new species of UNIONIDÆ from Equador.

BY ISAAC LEA.

UNIO ORTONII.—Testa plicata, lato-elliptica, compressa, valde inæquilaterali, postice angulata, antice rotundata; valvulis crassis, antice crassioribus; natibus prominulis; epidermide rufo-fusca, eradiata; dentibus cardinalibus multipartitis, flexuosis curtisque; lateralibus prelongis, curvatis corrugatisque; margarita albidæ et valde iridescente.

Hab.—River Napo, Equador, S. Am., Prof. Orton.

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